

Assignment 3

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Python code:

#traffic light for raspberry pi simulating in pycham with GUI

```
import turtle
import time
wn= turtle.getscreen()
wn.title("Stoplight By MURALIDHARAN")
wn.bgcolor("black")
```

#gui interfrace

```
pen= turtle.Turtle()
pen.color("Yellow")
pen.width(4)
pen.hideturtle()
pen.penup()
pen.goto(-30, 60)
pen.pendown()
pen.fd(60)
pen.rt(90)
pen.fd(120)
pen.rt(90)
pen.fd(60)
pen.rt(90)
pen.fd(120)
```

#red light

```
red_light =turtle.Turtle()
red_light.shape("circle")
red_light.color("grey")
red_light.penup()
red_light.goto(0, 40)
```

#Yellow light

```
yellow_light =turtle.Turtle()
yellow_light.shape("circle")
yellow_light.color("grey")
```

```
yellow_light.penup()  
yellow_light.goto(0, 0)
```

#Green light

```
green_light =turtle.Turtle()  
green_light.shape("circle")
```

```
green_light.color("grey")  
green_light.penup()  
green_light.goto(0, -40)
```

while True:

```
    yellow_light.color("grey")  
    red_light.color("red")  
    print("Red light Blinked - Now vehicle Stop behind zebra cross..")  
    print("Blink!!")  
    time.sleep(2)  
    print("Blink!!")
```

```
    red_light.color("grey")  
    green_light.color("green")  
    print("Green light on- Now vehicle can go..")  
    print("Blink!!")  
    time.sleep(3)  
    print("Blink!!")
```

```
    green_light.color("grey")  
    yellow_light.color("yellow")  
    print("Yellow light Blinked- Now vehicle Ready to go..")  
    print("Blink!!")  
    time.sleep(1)  
    print("Blink!!")  
wn.mainloop()
```

OUTPUT WITH GUI INTERFACE

```
C:\Program Files\WindowsApps\PythonSoftwareFoundation.Python.3.10_3.10.2032.0_x64__qbz5n2kfra8p0\python3.10.exe
Red light Blinked - Now vehicle Stop behind zebra cross..
Blink!!
Blink!!
Green light on- Now vehicle can go..
Blink!!
Blink!!
Yellow light Blinked- Now vehicle Ready to go..
Blink!!
```

